Telemetry Group

Recorder and Reproducer Committee

RCC-TG Progress on Recorder Standards

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Recorder/Reproducer Committee

- PURPOSE
  - Address telemetry standards and test methods associated with data recorders, media, multiplexers, and reproducers

- RESPONSIBLITY
  - IRIG 118, VOL III
  - IRIG 106, Chapters 6 & 7, Appendices D, G, L
  - IRIG 106, Chapter 10 (Pinksheet)
  - IRIG 106, Part II, Chapter 5 (To be accomplished)
  - IRIG 107

MEMBERSHIP

Space and Missile System Center (Vandenberg AFB)   Ken Schoeck

Air Force Flight Test Center (Edwards AFB)   Tim Chalfant

Air Combat Command (Eglin AFB)   Al Berard

Gulf Test Range (Tyndall AFB)   Jeff Heckerson

Naval Air Warfare Center (Aircraft Div, Pax River)   Joe Lloyd

Naval Air Warfare Center (Weapons Div, Pt. Mugu)   Rolando Chinea

Naval Sea Warfare Center (Port Hueneme)   Jose Martinez

NASA (Goddard Space Flight Center)   Bill Poland

PMRF (Kaui)   Gordon Mattos

- **Instrumentation Magnetic Tape**

- **Longitudinal Analog Recorders**

- **ID-1 Digital Cassette Recorders**

- **VLDS Digital Cassette Recorders**

- **Solid State Recorders**

- **ADARIO Mux/Demux**

- **ARMOR Mux/Demux**

New Standards

- TG 47 Recorder Command and Control Mnemonics
  IRIG 106, Chapter 6 Section 18 (Pinksheet)

- TG 56 SSR - IRIG 106, Chapter 10 (Pinksheet)

- TMATS Addendum - IRIG 106, Chapter 9 (Pinksheet)

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TG47

- Command and Control Mnemonics
  - Any Type of Data Recorder
    - tape
    - solid state
    - optical
  - Slanted to Benefit Range Operators
  - Common Command Set
  - Device Specific Commands

Proposed Addition to IRIG 106, TG 56   Chapter 6

- Input/Output Interfaces/Protocols
- Device Packaging
- Recommendations on Interconnection and Module Packaging for a Standard Solid-State Recorder
- Data Format
- Status:
  - Following STANAG 4575 (in NATO Ratification cycle)
  - Updating IRIG 106 with a new chapter - Chapter 10
  - Pink sheet in range and industry review

Proposed Addition to IRIG 106, Chapter 10

- Fiber Channel as download means or mechanism
- Data File Structures
- Index File
- Packet Structure Definition
- User Defined Message Types
- Clock Rates
- Video Compression and Transmission
- TMATS Issues
  - Pink sheet in committee review

- Disk Based Recorder Study
  - File Formats
    - FAT32
    - NTS

- TMATS Registry Process
  - Vendor Specific Device Attributes

- Committee Realignment

- New Technologies
  - Higher capacities, transfer rates, smaller size

  - COTS Devices

  - Advanced Technologies
    - Opticals, Crystals, Proteins
    - Molecular, Nano-Tubuals

- DoD Ranges must be able to interoperate

- **The committee is in need of help**

- **Ranges: studies, future scan, and committee work**

- **Industry: assistance, technology concepts, direction**

Please contact myself or a member in your area if interested in joining these efforts.